

criteria are sent to a pager 668. The PCI network will take the originating message information and turn it into alphanumeric information according to the TAP protocol and send it to the subscriber's pager. If the screening option is turned off, notification of all incoming e-mail is sent to voicemail 670. The PCI network will convert the origination information from text to synthesized speech and send the information to a selected voice mailbox.

The user may also select whether to screen incoming e-mail messages at all 654. If the screening is on, the user may screen e-mail based on the originating address 656 or subject matter 658.

FIG. 29 is an illustrative screen which the subscriber may use to edit e-mail screening according to address by clicking box 656 (FIG. 28). The subscriber may input new e-mail addressees into box 672 and add them to a list by clicking a box 674 or select addresses already entered to be included in a screening criteria as seen in box 676. For example, the user may want e-mail messages originating from the following addresses to be routed according to the screening criteria: cclstanp, cclrizzo, and cclrupin. E-mail messages originating from these addresses will be routed and notified according to the criteria selected on the screen illustrated in FIG. 28.

If the user selected to edit the "subject" a screening criteria based on "subjects" by clicking box 658 (FIG. 28), a screen such as that illustrated in FIG. 30 is presented. The user may type in to boxes 678 particular subjects which should be routed according to a screening criteria. The subject will search the incoming e-mail origination information to determine the subject of the e-mail. Subjects may include "urgent", "personal", the name of a client or project, etc.

#### IX. Billing

Billing operations is supported by an Automatic Message Accounting Network Function. The automatic network accounting measures, collects, formats and outputs network usage information to upstream billing and other operation application and service purposes. Preferably, automatic message accounting data is collected at various stages of service flows across network equipment and services.

#### X. Conclusion

An improved e-mail system is described with provides enhanced delivery and notification options and profile update capabilities.

While the invention has been described by the reference to specific embodiments, this was for purposes of illustration only and should not be construed to limit the spirit or the scope of the invention.

### APPENDIX 1

#### Glossary of Acronyms

AIN	advanced intelligent network
ANI	automatic number identification
APS	alphanumeric paging server
ATM	asynchronous transfer mode
CC	CallCommand
CCDB	call contact database
CO	central office
CPE	consumer premises equipment
CPR	call process request
D&R	data and report database
DRS	data and report subdivision
DTMF	dual tone multiple frequency
GDI	generic data interface
HLR	home location register
IP	intelligent peripheral

### APPENDIX 1-continued

#### Glossary of Acronyms

IPI	intelligent peripheral interface
ISDN	integrated signaling digital networks
LEC	local exchange carrier
MOC	maintenance and operation console
MSAP	multiple services application platform
MTA	message transfer agent
PCI	personal communications internetwork
PDA	personal digital assistant
POP	post office protocol
PPSN	public packet switched network
PSTN	public switched telephone network
SMDS	switched multimegabit digital service
SMS	service management system
SNI	service network interface
SPACE ®	service provisioning and creation environment
SPC	service profile cache
SSP AT	service switching point access-tandem
TAP	telocator alphanumeric protocol
TCAP	transaction capable application program
TCP	transaction capable processing
VLR	visiting location register

### APPENDIX 2

PCI Profile Element	GDI Tag ID	Type and Max Length
<b>Personal Data (1)</b>		
Subscriber ID Number	1	d10
Password	2	c8
E-mail Address	3	c32*
V-Mail System Phone Number	4	d10
V-Mail System Mailbox Number	5	d10
Paging Terminal Phone Number	6	d10
Paging PIN	7	c8
Mail Storage Account ID	8	c32*
Mail Storage Password	9	c8
Wireless Provider Subscriber ID	10	c10
Wireless Voice Phone Number	11	d10
Fax Number	12	d10
Profile Version Number	13	n4
<b>Call Command Service Profile (2)</b>		
Call Command Registration Status	21	c1
Wireline Registration Number	22	d10
<b>E-Mail Routing (3)</b>		
Primary Destination 1	31	c1
Primary Destination 2	32	c1
Primary Notification 1	33	c1
Secondary Destination	34	c1
Secondary Notification	35	c1
Default Destination	36	c1
Default Notification	37	c1
<b>E-Mail Subject Screening (4)</b>		
E-Mail Screening Status	41	c1
Subject1	42	c1
Subject2	43	c1
Subject3	44	c1
Subject4	45	c1
Subject5	46	c1
<b>E-Mail From Screening (5)</b>		
E-Mail Screening Status	41	c1
From1	52	c12
From2	53	c12
From3	54	c12
From4	55	c12
From5	56	c12
From6	57	c12
From7	58	c12
From8	59	c12